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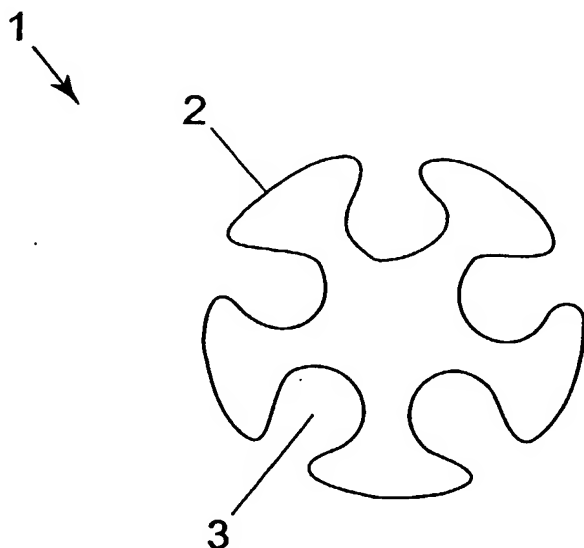
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(54) Title: SHAPED MONOFILAMENTS WITH GROOVES AND THE FABRICS MADE THEREOF



(57) Abstract: A monofilament with longitudinally oriented grooves and fabrics made thereof having reduced air permeability, wherein the reduced permeability is achieved without using additional coatings or stuffer yarns. Bicomponent monofilaments made from these grooved monofilaments using solution or wire coating have improved coating adhesion and may also include a conductive coating. In addition, the grooved bicomponent monofilaments may include a wear-indicating mechanism. Also disclosed are monofilaments with grooves formed in its surfaces. Advantageously, these grooved monofilaments exhibit improved adhesion to "sheet-grip" coatings, as compared with circular monofilaments. In addition, fabrics comprising these grooved monofilaments demonstrate improved air handling. The grooved monofilaments may be incorporated in a fabric as MD yarns, CD yarns, or both CD and MD yarns.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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X	US 6 352 772 B1 (KELLER ROBERT ALLEN) 5 March 2002 (2002-03-05)	1-15, 21-27, 34-43, 48,49 16-20
Y	the whole document	
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☒ Patent family members are listed in annex.

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